Sappanone A

Cat. No.: HY-113556

CAS No.: 102067-84-5

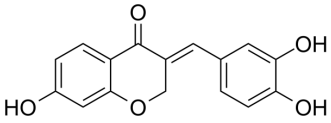
Molecular Formula: $C_{16}H_{12}O_5$

Molecular Weight: 284.26

Target: NF-κB; Keap1-Nrf2

Pathway: NF-κB

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (351.79 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.5179 mL	17.5895 mL	35.1791 mL
5 mM	0.7036 mL	3.5179 mL	7.0358 mL
10 mM	0.3518 mL	1.7590 mL	3.5179 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (7.32 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (7.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sappanone A is a homoisoflavanone which exhibits anti-inflammatory effects via modulation of Nrf2 and NF-κB. Sappanone can attenuate allergic airway inflammation in Ovalbumin-induced asthma[1].

REFERENCES

[1]. Lee S, et, al. Sappanone A exhibits anti-inflammatory effects via modulation of Nrf2 and NF-κB. Int Immunopharmacol. 2015 Sep;28(1):328-36.

[2]. Liu X, et, al. Sappanone A Attenuates Allergic Airway Inflammation in Ovalbumin-Induced Asthma. Int Arch Allergy Immunol. 2016;170(3):180-6.

Caution: Product has not been fully validated for medical applications. For research use only.

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